CW-WZ-0085

2.4-2.5G External Directional Antenna

Cowin Antenna

Key Features

Frequency: 2.4-2.5G

SMA Male Connector

External Rubber

Dimensions 108.5*90 mm

1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G
VSWR	2:1
Efficiency (%)	89.79%
Peak Gain (dBi)	8.22
Impendance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

2. Material and environmental characteristics

Inner structure	Tinplate
Material of Plastic	ABS/POM
Cable Type	RF1.37
Connector Type	SMA Male
Dimensions (mm)	108.5*90MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

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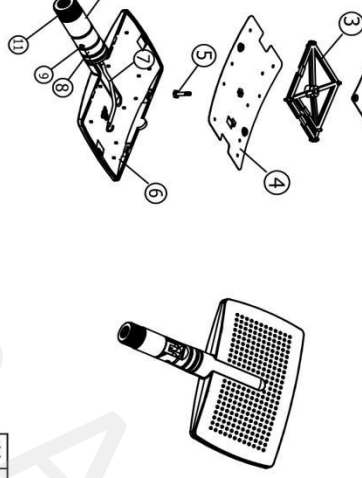

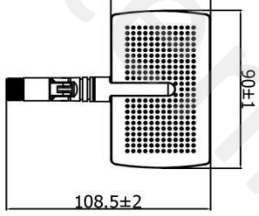

Specification(Free Test):

Frequency Range:2.4-2.5G

Impedance: 50Ω

V.S.W.R: ≤2

100% Continuity,short and open circuit test

Materials,parts and process must by environmentally (ROHS)

NO	Name	Description	Q'TY	Remark
11	Connector	SMA Male	1	
10	Lower fixing seat	ABS	1	
9	Positioning column	POM	2	
8	Upper fixing seat	ABS	1	
7	Cable	Ø1.37 Black double tin wire	1	
6	Right cover	ABS	1	
5	Screw	Iron	1	
4	Lower sheet metal	Tinplate	1	
3	Bracket	ABS	1	
2	Upper sheet metal	Tinplate	1	
1	Left cover	ABS	1	

REV	Date	Description
X1	2022/05/18	New issue

XX. ±5.0	Approved	Customer	
X. ±3.0		Part NO.	
.X ±1.0	Checked	Part name	External antenna
.XX ±0.2		CW P/NO.	CW-WZ-0085
.XXX ±0.1	Drawing	REV X1 / Unit m/m	File : / Sheet : 1/1

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4. Antenna test parameters

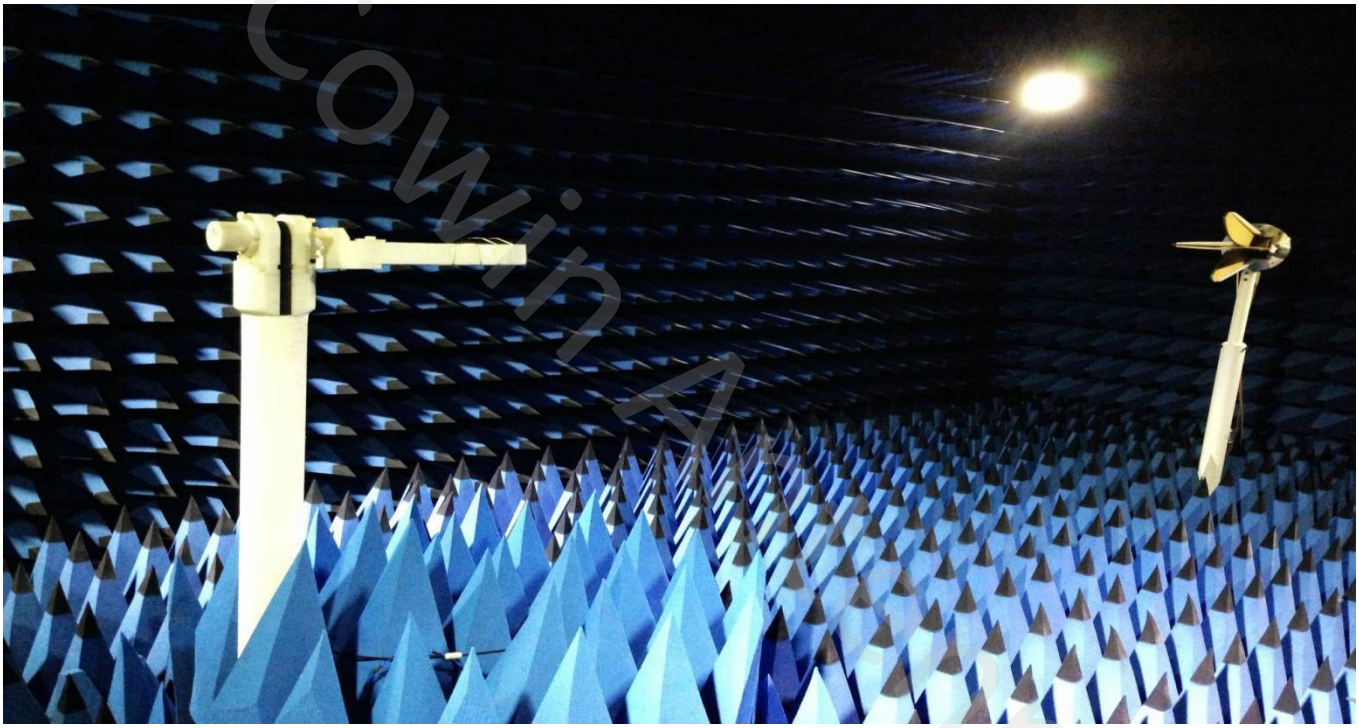
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

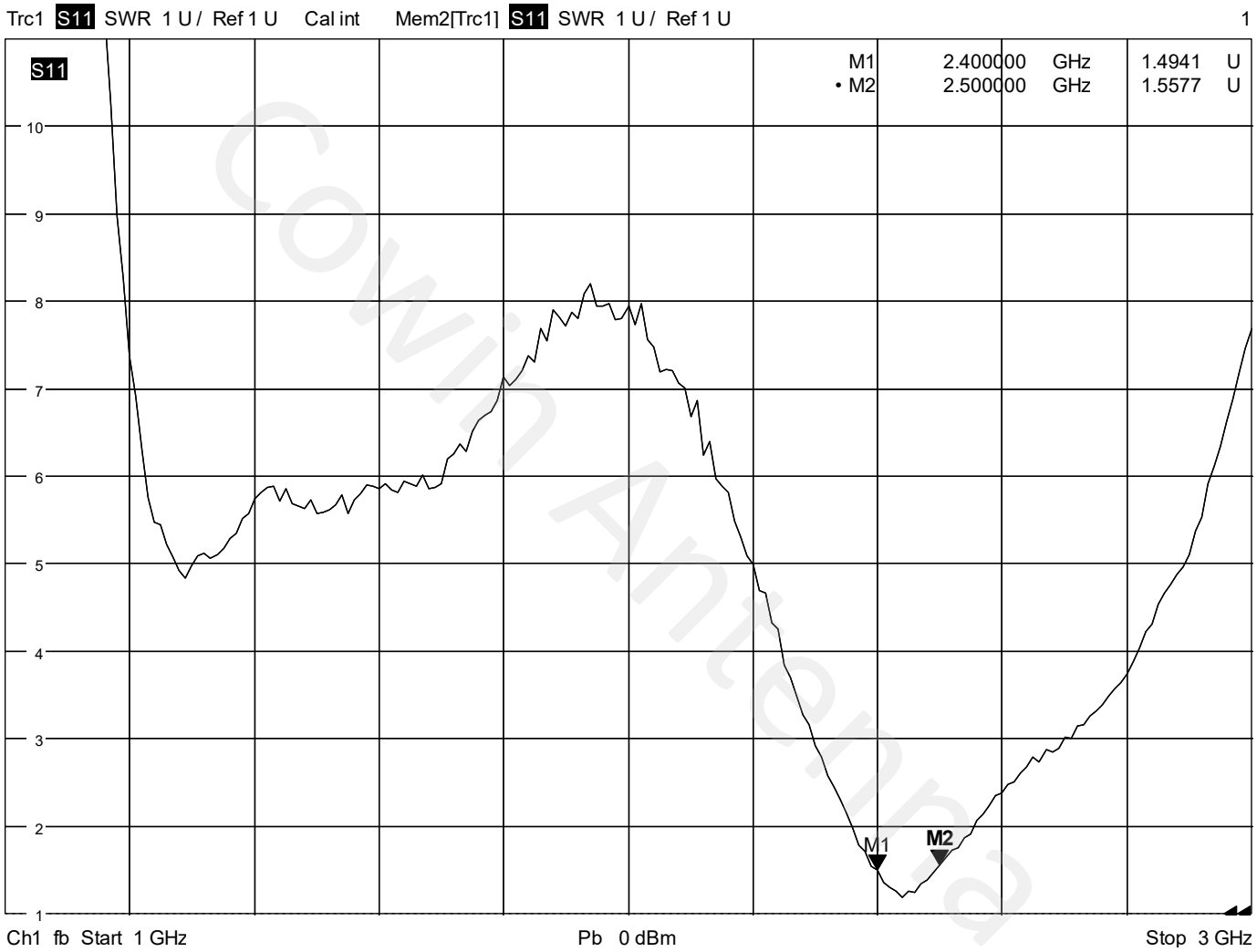
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500



4.1 VSWR



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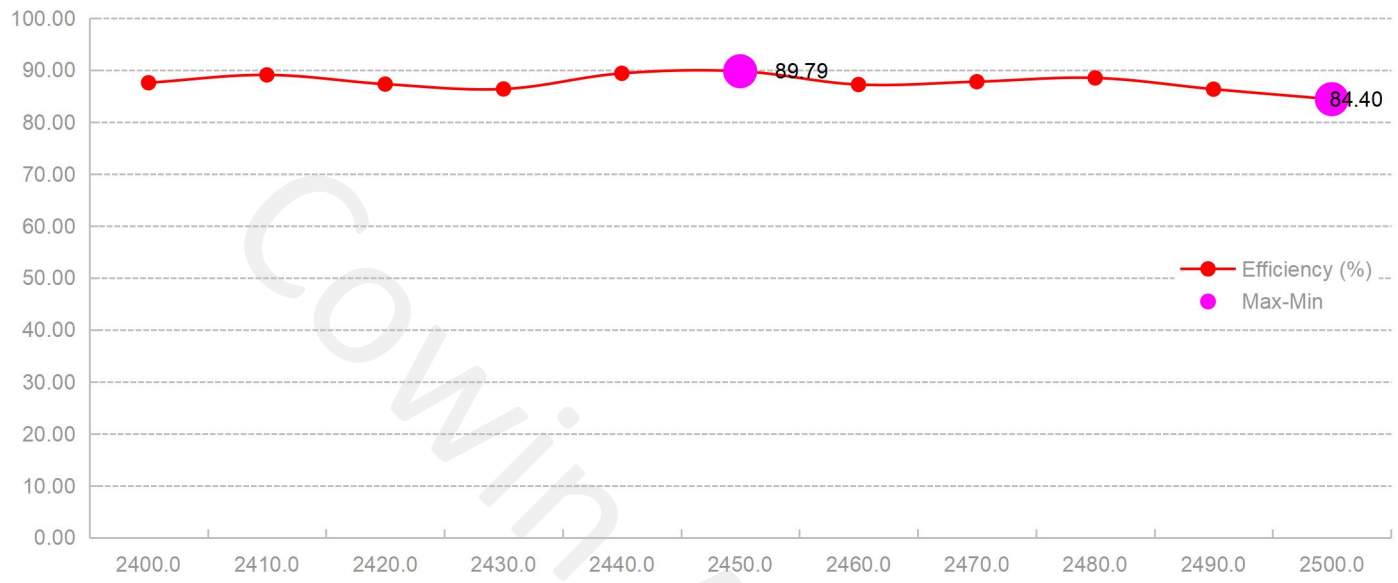
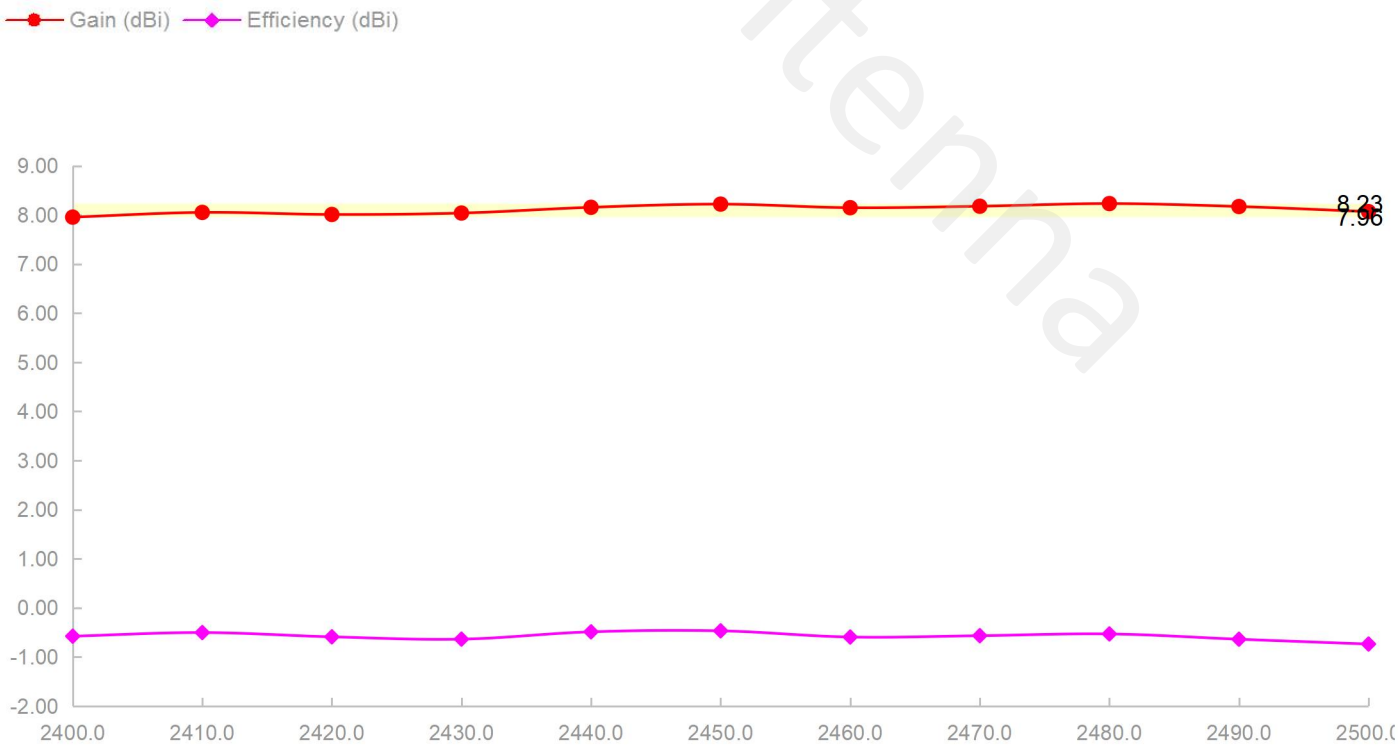
4.2 Efficiency



4.3 Peak gain



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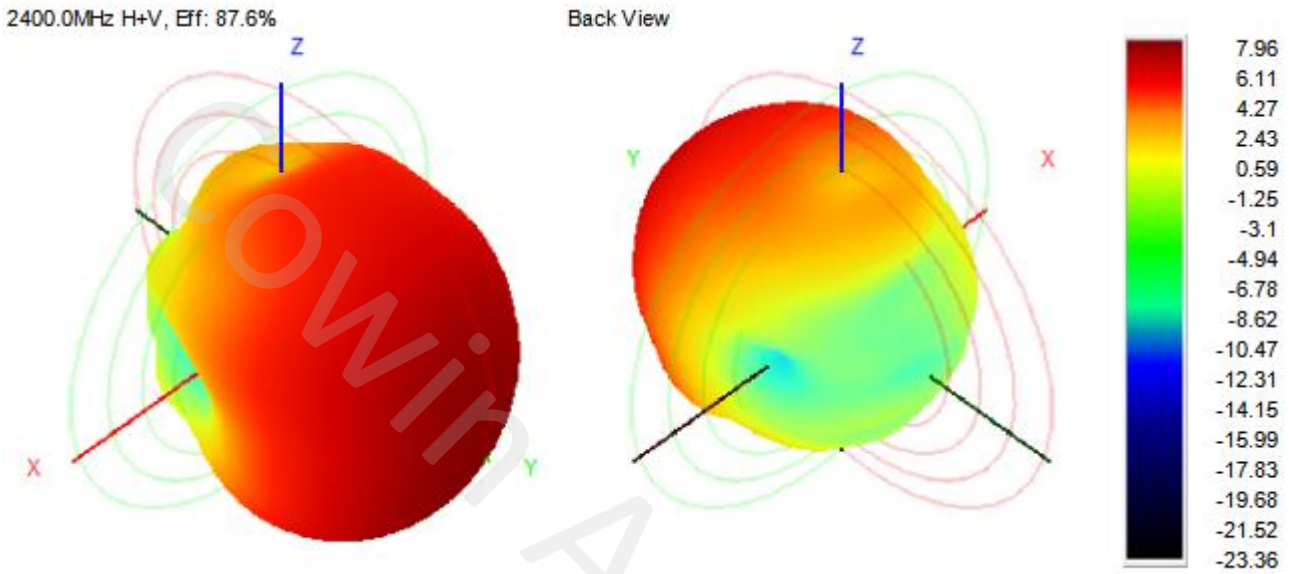
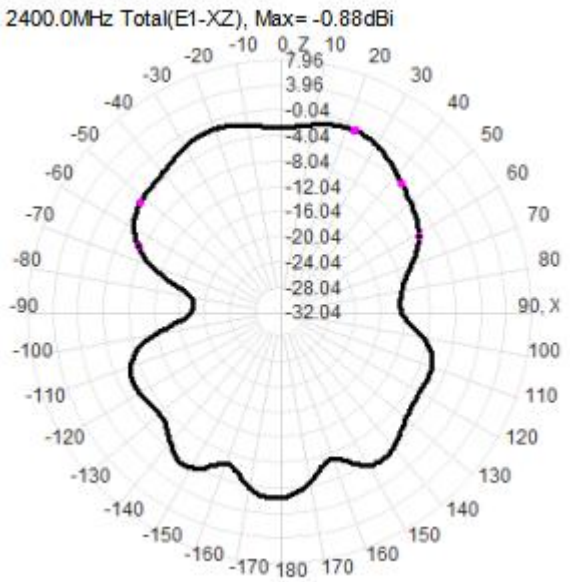
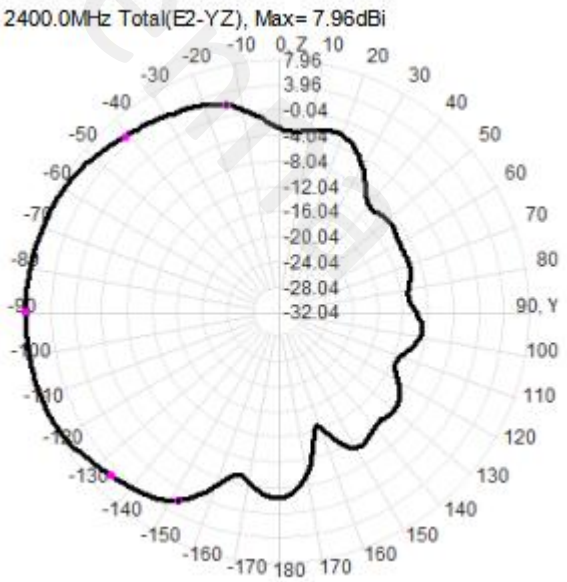
4.4 3D&2D Radiation Patterns







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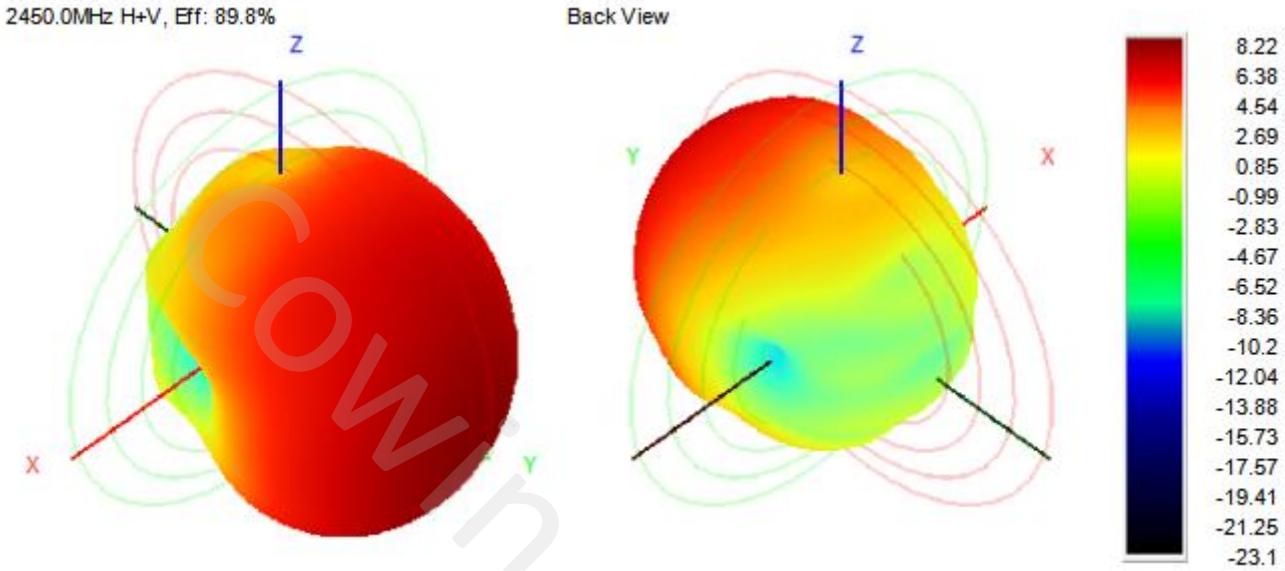

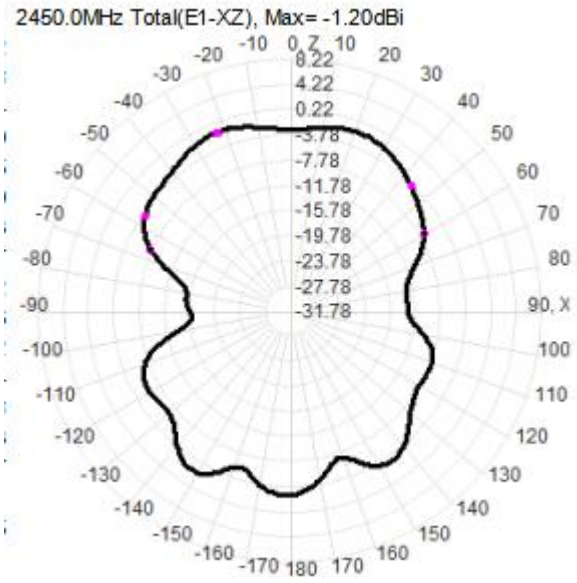

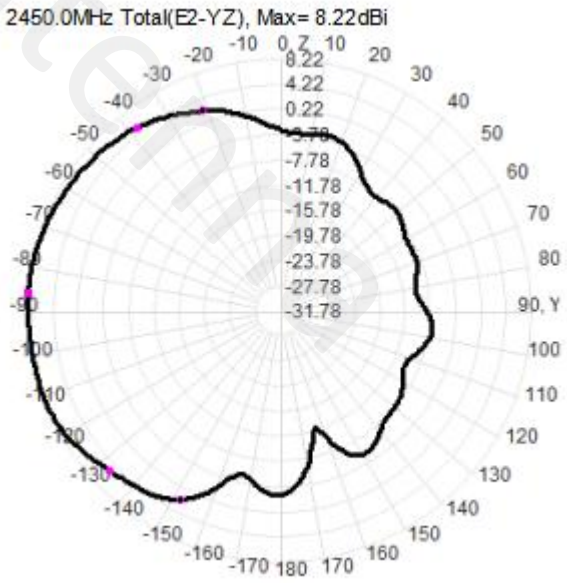

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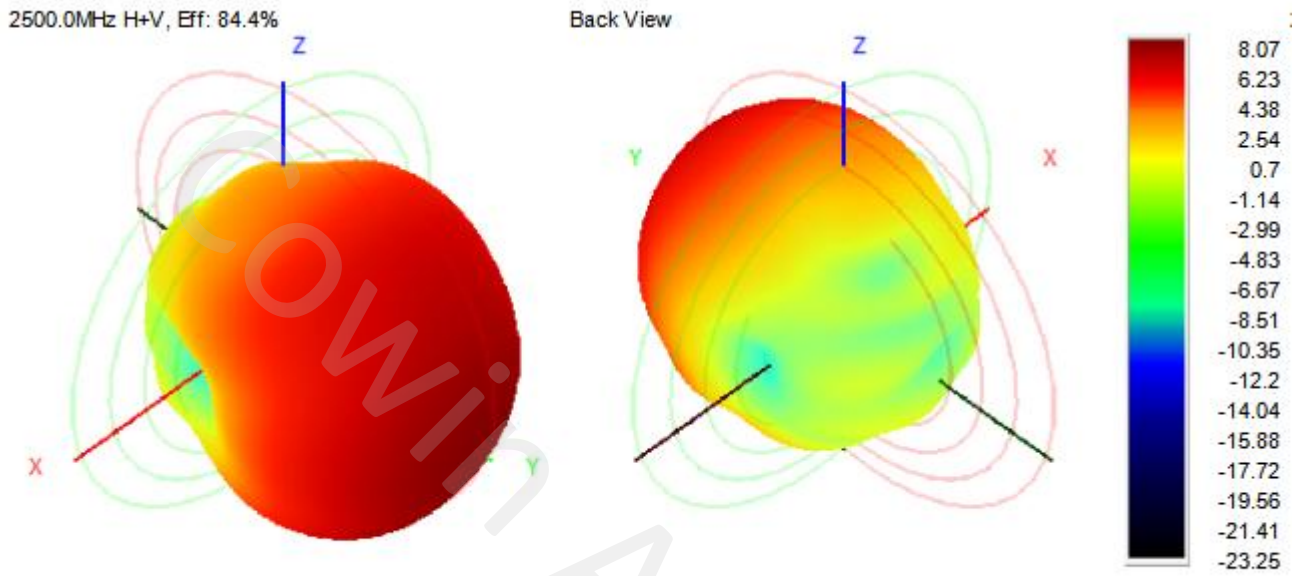

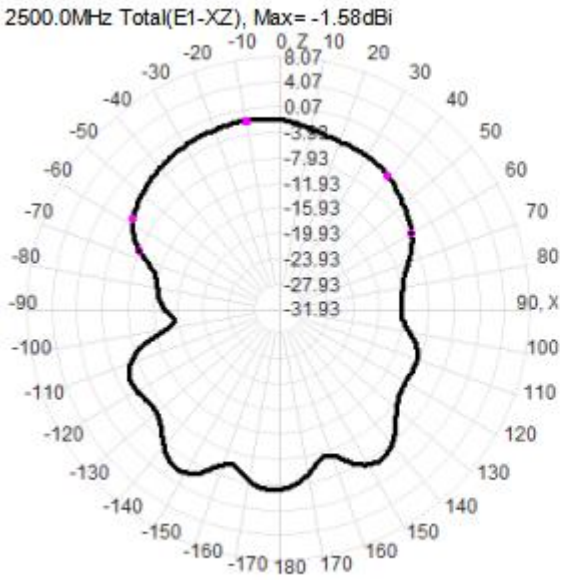

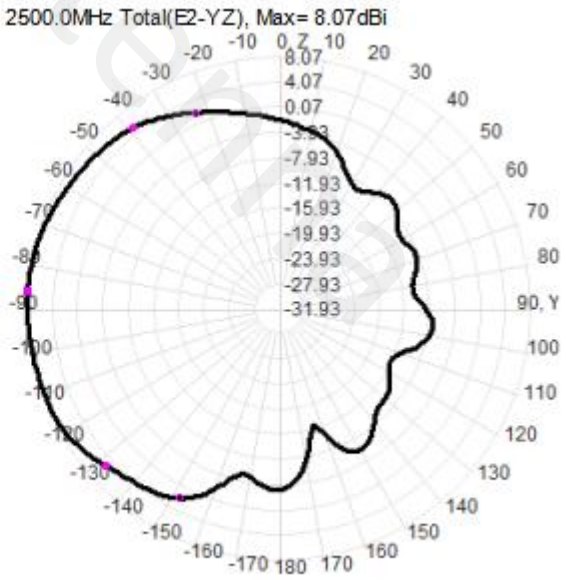

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